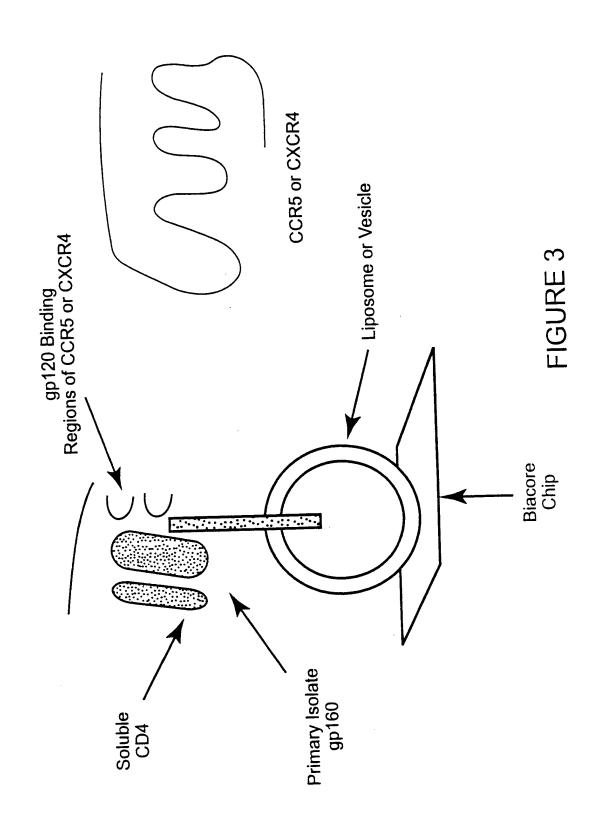
FIGURE 1

Vesicle or Liposome or Inactivated Hiv-1 Virion

Primary Isolate

gp160

FIGURE 2



BIAcore measurements of binding interactions between soluble gp120 (DH12) and CD4 240 CD8 CD4 200 120 160 80 40 40 280 240 200 120 80 160 Response Unit (RU)

FIGURE 4

Time (s)

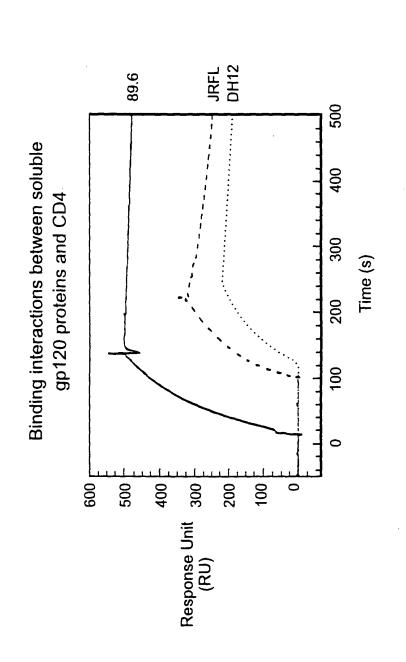


FIGURE 5

Kinetics and binding affinities of the interactions between pg120 and CD4

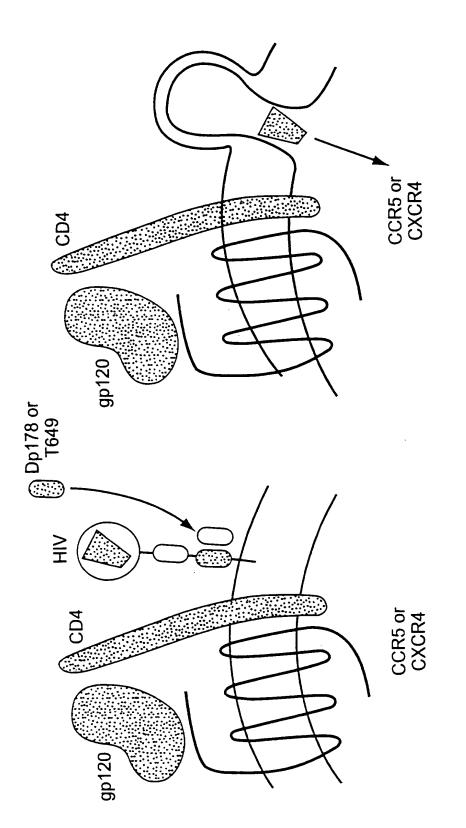
	^t 1/2 min	14	30	136	
	¥∑	1.5x10 ⁻⁷	7.8x10 ⁻⁸	1.8×10 ⁻⁸	
	k _d ,s ^{-)} (off-rate)	8.84×10 ⁻⁴	3.86×10 ⁻⁴	8.48×10 ⁻⁵	
7	k _a M ^{- l} s ^{- l} (on-rate)	6.0x10 ³	4.9x10 ³	4.6x10 ³	·
	gp120	JRFL	DH12	89.6	

FIGURE 6

- CD4 CD8 1600 Binding of soluble CD4 to gp120-expressing membranes from CHO-wt cells 1400 CHO-wt memberanes 1200 Time (s) 1000 800 -2000 [[] -200 -1500 200 -1000 1000 Response Unit (RU)

FIGURE 7

FIGURE 8



HIV fusion occurs in the absense of fusion inhibitory peptide

HIV fusion blocked by Dp178 or T649 peptides producing "frozen" fusion intermediate

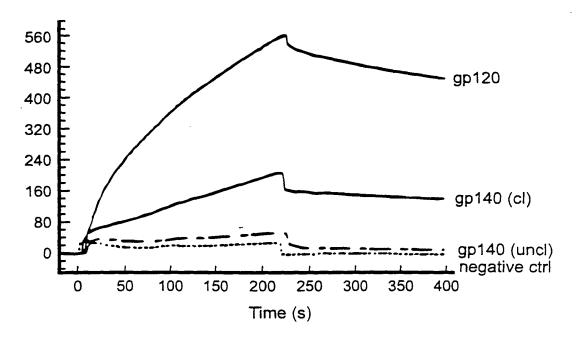


FIGURE 10A

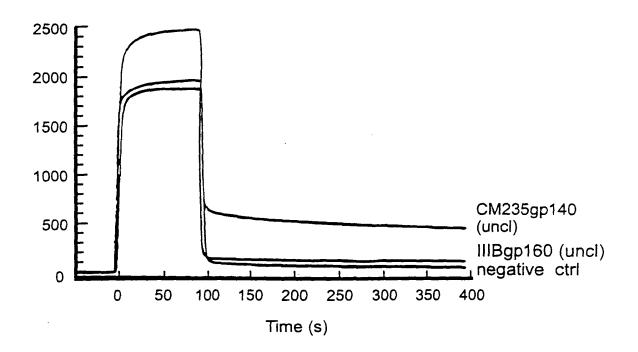


FIGURE 10B

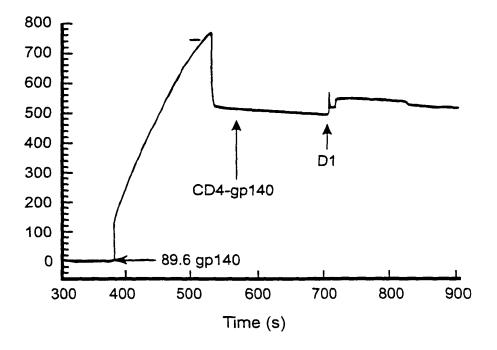


FIGURE 10C

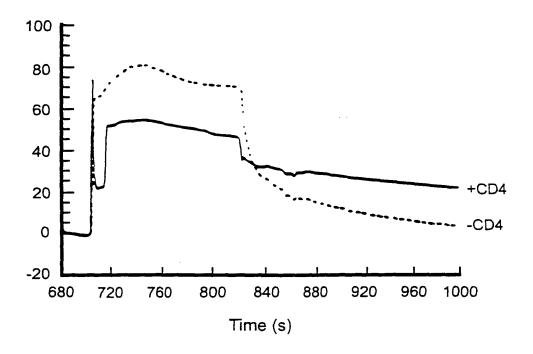
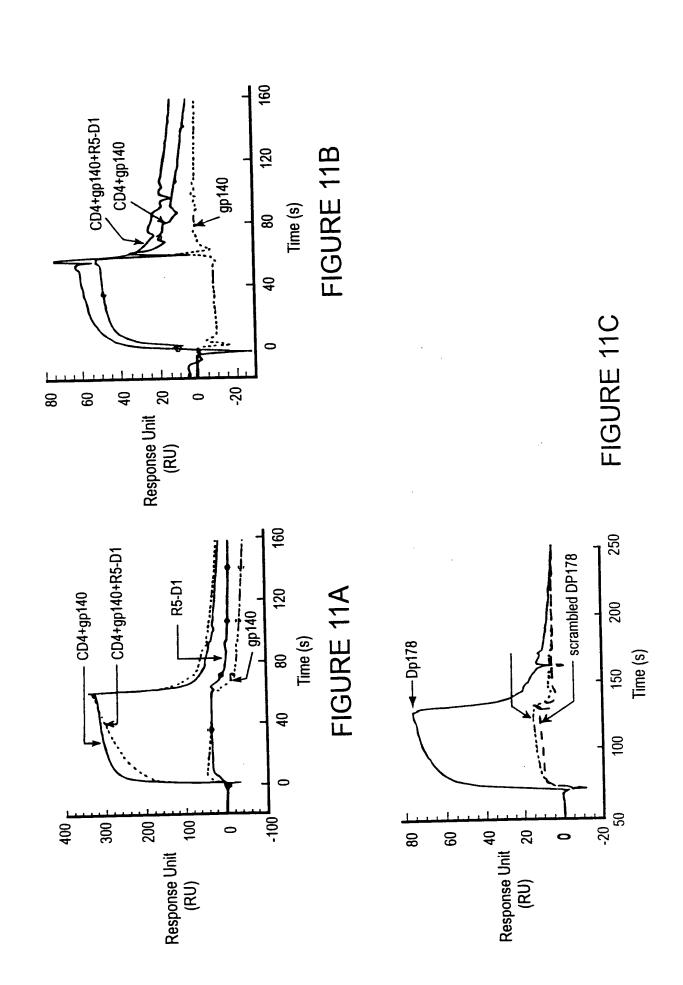


FIGURE 10D

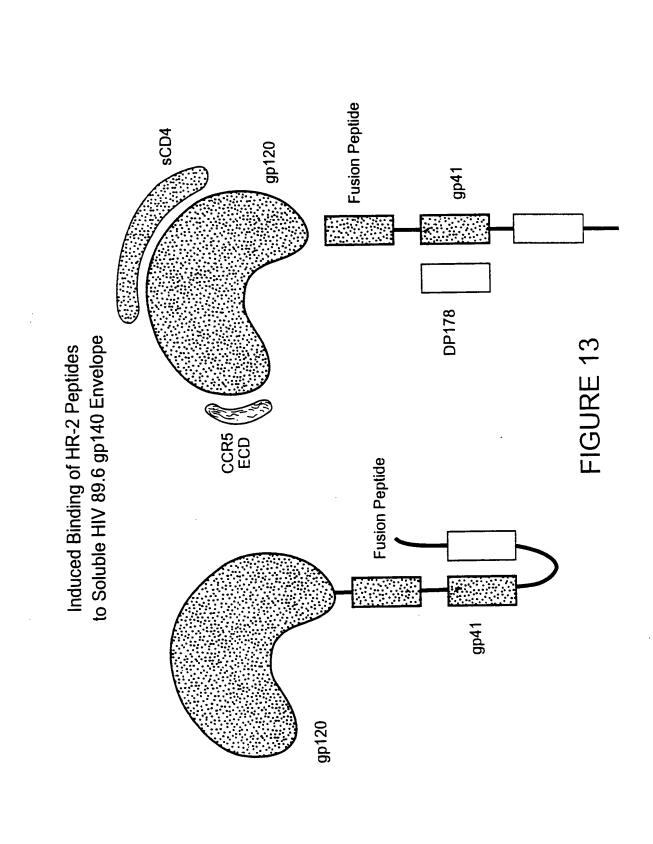


89.	89.6 gp140	Ka M ⁻¹ s ⁻¹	K _d s-1	Kd µM	t _{1/2} s	RU
DP178 CD CD gp1	CD4+gp140 CD4+gp140+R5-D1 gp140+R5-D1 gp140	7.9X10 ³ 3.47X10 ³ nm nm	5.6X10 ⁻³ 3.86X10 ⁻³ nm nm	0.7 1.1 nm nm	124 180 nm nm	320 328 38 35
T694QL CD CD gp	CD4+gp140 CD4+gp140+R5-D1 gp140+R5-D1 gp140	6.2X10 ³ 5.1X10 ³ nm nm	1.46X10 ⁻² 5.3X10 ⁻³ nm nm	2.4 1.0 nm	48 131 nm nm	53 64 0

FIGURE 11D

FIGURE 12

	7	2				
_	•	ת				
Anti-gp120 mab T8	With Without sCD4	∞ ~				
	With sCD4	သ	÷.			
nti-gp41 iab 7B2	With Without With sCD4 sCD4	ည 4	1			
₹ =	With sCD4	7	•			ā.
		ð	204	83	43	32



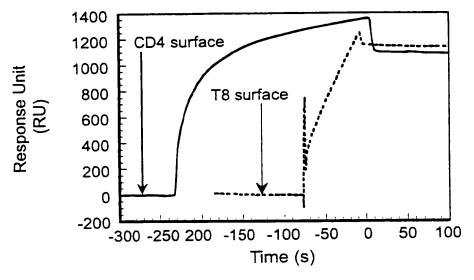


FIGURE 14A

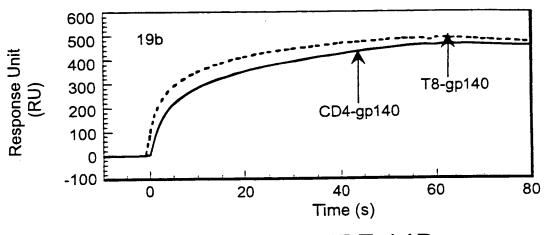


FIGURE 14B

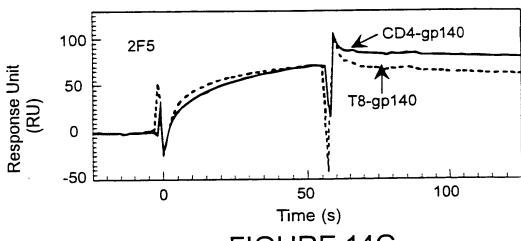
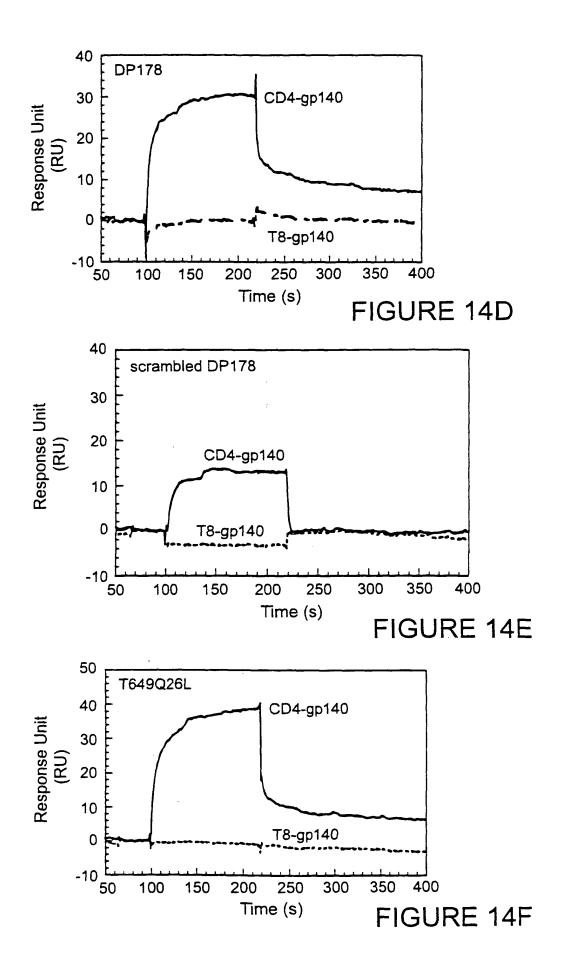
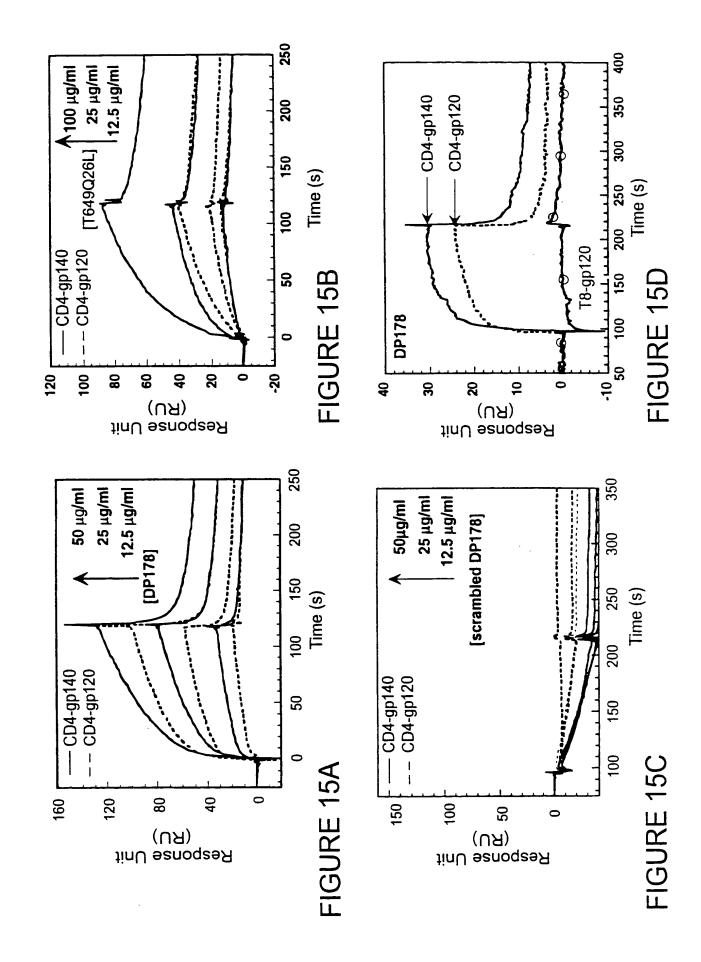


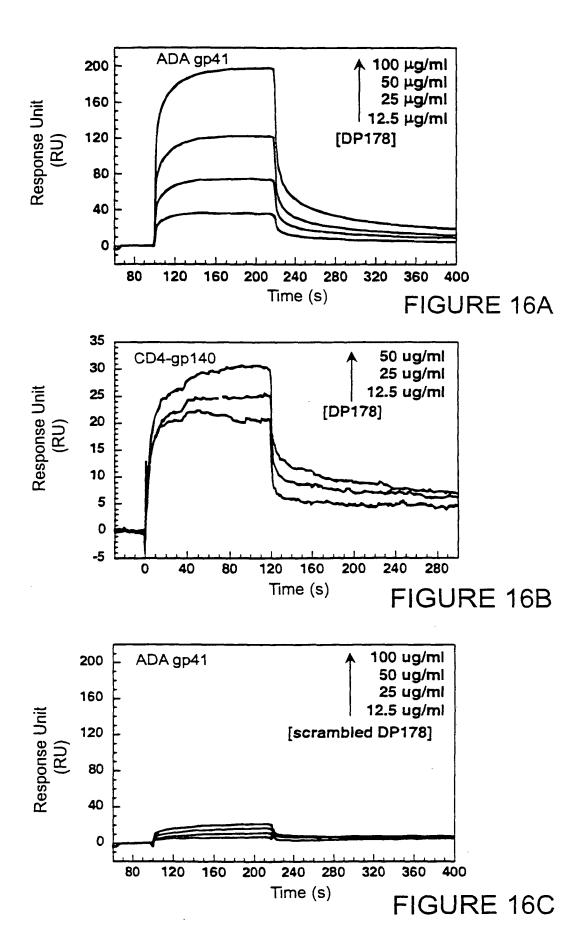
FIGURE 14C





	kon M ⁻¹ s ⁻¹	k _{off} s-1	K _d µ.M	t1/2 s
DP178 CD4-gp120 CD4-gp140	0.75x10 ³ 0.93x10 ³	1.5x10 ⁻³ 1.0x10 ⁻³	2.0	462 693
T649Q26L CD4-gp120 CD4-gp140	1.26×10 ³ 0.88×10 ³	3.2×10 ⁻³ 1.1×10 ⁻³	2.54	217

FIGURE 15E



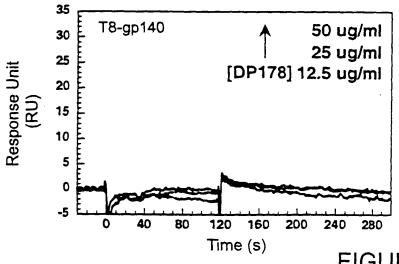


FIGURE 16D

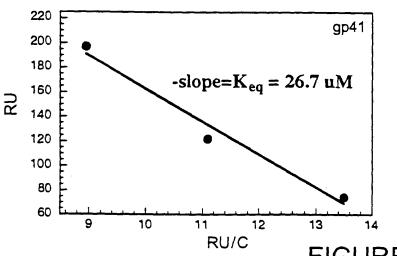


FIGURE 16E

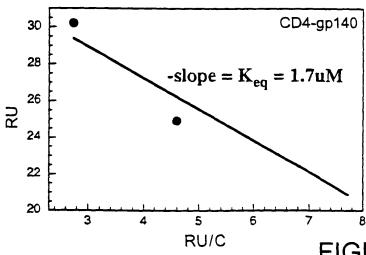


FIGURE 16F

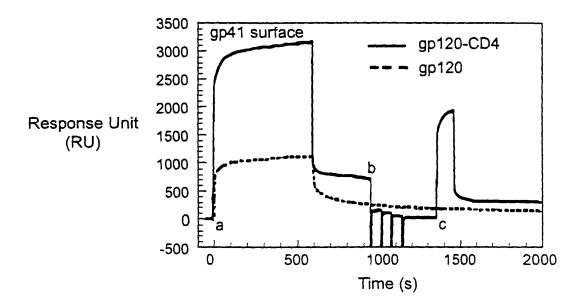


FIGURE 17A

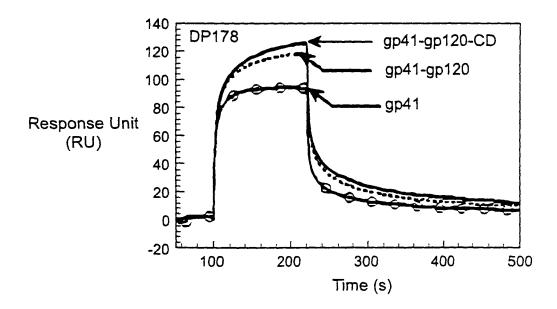


FIGURE 17B

FIGURE 18

FIGURE 19

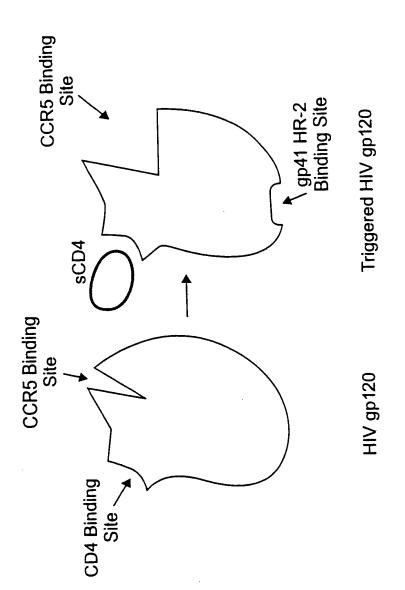


FIGURE 21

FIGURE 22

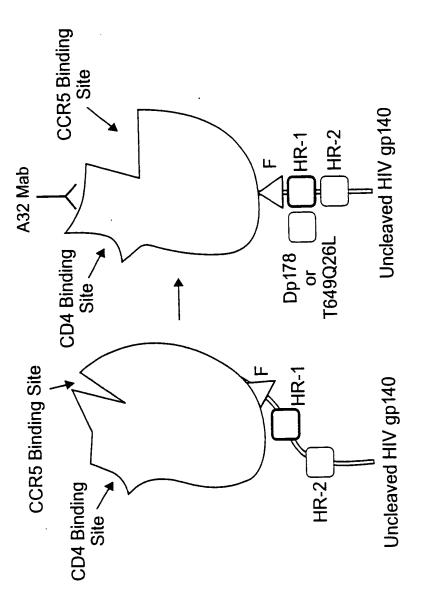


FIGURE 23

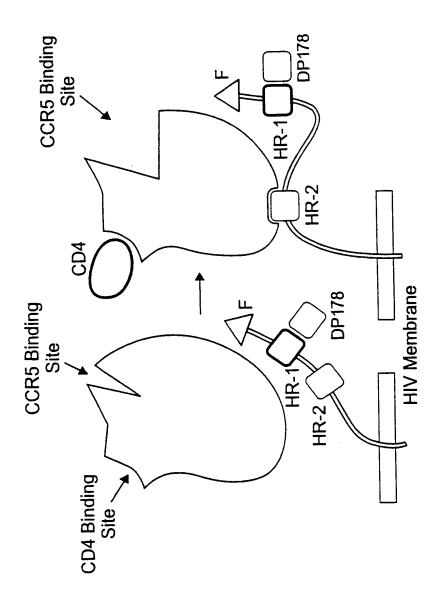


FIGURE 24

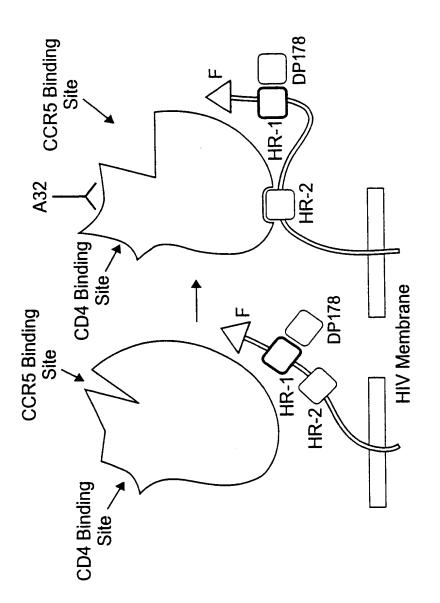


FIGURE 25

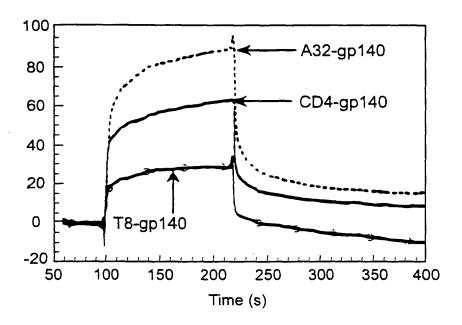
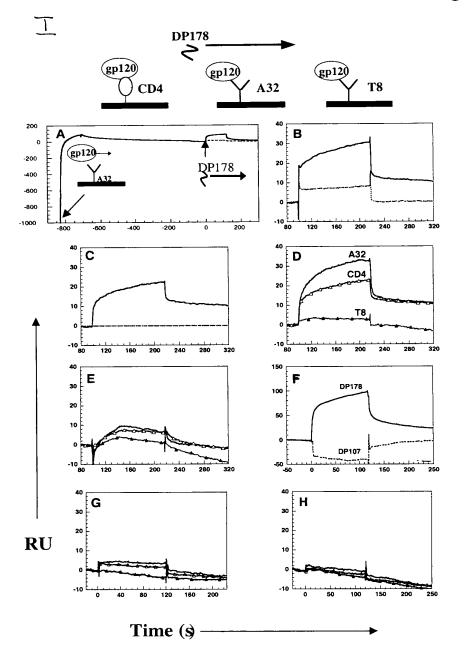
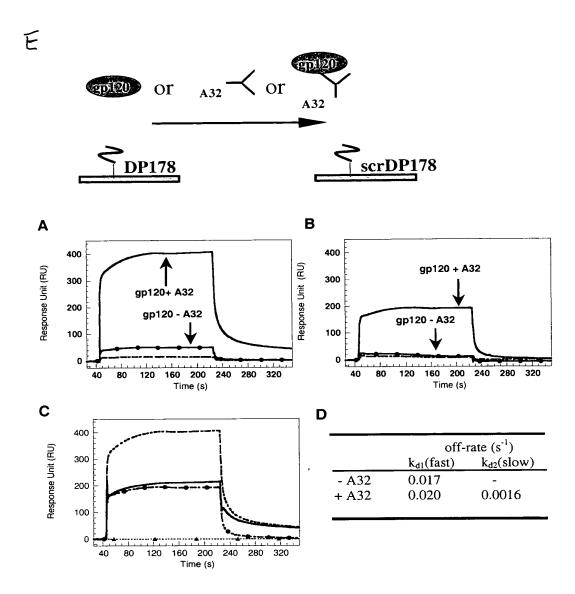


FIGURE 26





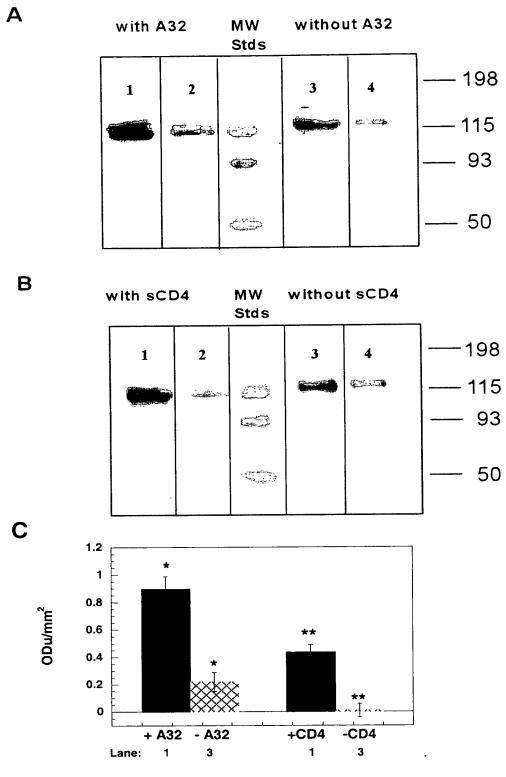


Figure 29

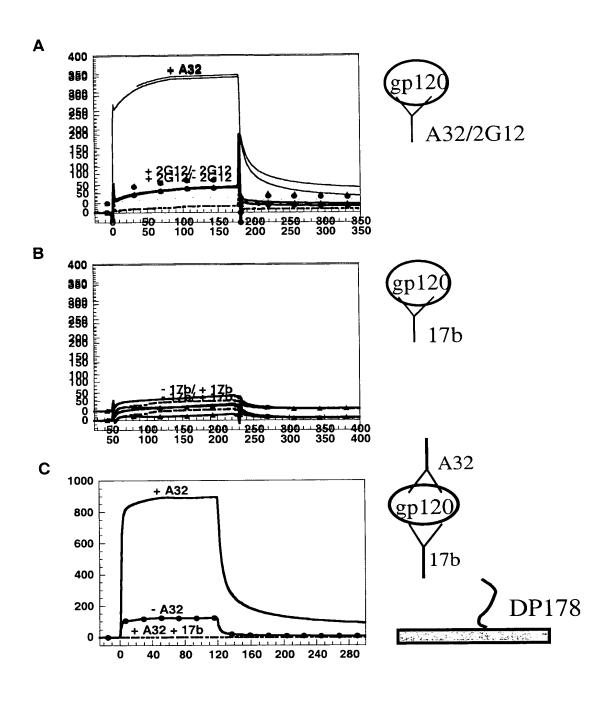
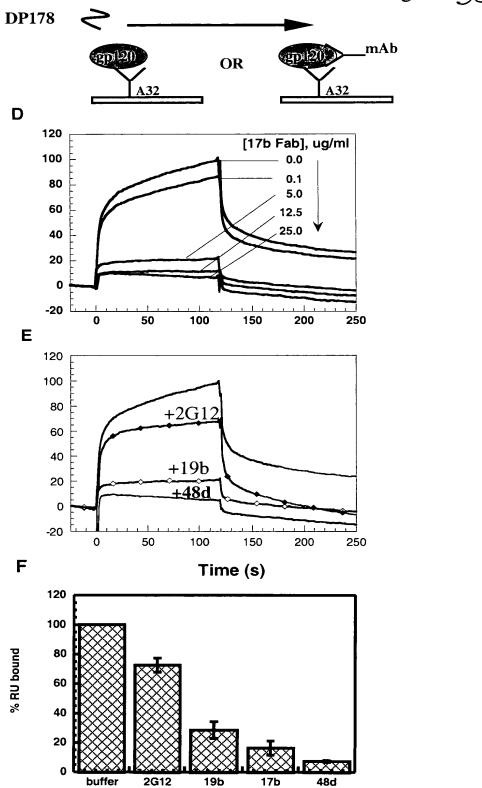


Figure 30



G



